QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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9	PCC(M15)	Compressive Strength(7days and 28days)	5 set /50-100 cum	68.16	10	10
10	RCC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	79.7	10	10
11	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
12	BM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
13	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
14	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
15	TACK COAT	Rate of spread	One Test		1	1
16	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**011-22-000003** **Date: 26-03-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer's Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-03-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.89	–
2	Finess by Air permeablity method (m^2/kg,Min)	288.8	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**011-22-000003** **Date: 21-04-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer's Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	24-03-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**011-22-000003** **Date: 26-03-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer's Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	23-03-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-03-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1173	1173	7.8	92.2	90-100
3	20 mm	5824	6997	46.6	53.4	30-70
4	10 mm	4729	11726	78.2	21.8	10-35
5	4.75 mm	2546	14272	95.1	4.9	0-5
6	Pan	728	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **011-22-000003** **Date: 26-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.3	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.22	–

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Note:

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**011-22-000003** **Date: 25-03-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-03-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	254	254	5.1	94.9	90-100
3	10 mm	2435	2689	53.8	46.2	25-55
4	4.75 mm	1989	4678	93.6	6.4	0-10
5	Pan	322	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **011-22-000003** **Date: 25-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.46	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **011-22-000003** **Date: 25-03-22**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 23-03-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **011-22-000003** **Date: 25-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**011-22-000003** **Date: 25-03-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer's Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	24-03-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**011-22-000003** **Date: 13-04-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer's Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-22
Sample Type /Size	:	Precast Cover Slab(100 mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	09/04/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : 011-22-000003 **Date: 13-04-22**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-04-22

Sample Type /Size : Precast Cover Slab(250 mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 09/04/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.48	250.45	3.145	31561	750.5	23.8	22.1	27.6
2	Cover Slab-2	200.25	250.36	3.136	31489	780.5	24.8	23.1	28.8
3	Cover Slab-3	200.69	250.63	3.189	31627	760.5	24.0	22.4	28.0

* The results obtained are satisfactory as per standard requirements.

Note:

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ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 14/04/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	07/04/2022	14/04/2022	151.36 X 149.54 X 149.73	22635	8.115	272.4	12.0	12.3
2	PCC	M15	07/04/2022	14/04/2022	151.41 X 151.55 X 151.85	22946	8.153	285.9	12.5	
3	PCC	M15	07/04/2022	14/04/2022	149.37 X 150.67 X 149.94	22506	9.078	281.6	12.5	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 05/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	07/04/2022	05/05/2022	150.15 X 150.98 X 151.12	22670	8.241	406.7	17.9	17.5
2	PCC	M15	07/04/2022	05/05/2022	149.21 X 150.08 X 150.53	22394	8.827	386.9	17.3	
3	PCC	M15	07/04/2022	05/05/2022	150.86 X 151.42 X 150.55	22843	8.822	392.8	17.2	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 14/04/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	07/04/2022	14/04/2022	150.48 X 149.37 X 149.63	22478	8.954	274.5	12.2	12.5
2	PCC	M15	07/04/2022	14/04/2022	150.35 X 151.94 X 149.05	22845	8.620	293.1	12.8	
3	PCC	M15	07/04/2022	14/04/2022	151.67 X 149.02 X 151.32	22601	9.100	278.6	12.3	

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Quality Manager

CIVIL Pro Sig. Date. BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 05/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	07/04/2022	05/05/2022	149.29 X 149.21 X 151.60	22275	8.703	391.7	17.6	17.5
2	PCC	M15	07/04/2022	05/05/2022	150.32 X 151.59 X 149.76	22788	8.670	400.2	17.6	
3	PCC	M15	07/04/2022	05/05/2022	151.20 X 150.26 X 149.22	22718	8.236	391.0	17.2	

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 14/04/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	07/04/2022	14/04/2022	149.80 X 150.23 X 150.66	22504	8.952	280.1	12.4	12.5
2	PCC	M15	07/04/2022	14/04/2022	150.43 X 150.34 X 151.46	22615	8.518	288.6	12.8	
3	PCC	M15	07/04/2022	14/04/2022	150.19 X 149.86 X 149.14	22508	8.426	274.8	12.2	

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Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 05/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	07/04/2022	05/05/2022	150.53 X 151.86 X 149.82	22860	8.687	404.4	17.7	17.6
2	PCC	M15	07/04/2022	05/05/2022	150.38 X 150.73 X 151.93	22666	8.746	408.0	18.0	
3	PCC	M15	07/04/2022	05/05/2022	149.29 X 151.56 X 151.62	22627	8.728	387.6	17.1	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 15/04/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	08/04/2022	15/04/2022	149.99 X 149.55 X 149.58	22431	8.412	275.4	12.3	12.6
2	PCC	M15	08/04/2022	15/04/2022	151.50 X 150.06 X 151.14	22735	8.433	290.6	12.8	
3	PCC	M15	08/04/2022	15/04/2022	149.26 X 151.96 X 149.09	22682	8.191	291.7	12.9	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 06/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/04/2022	06/05/2022	150.79 X 149.85 X 149.22	22596	8.944	384.4	17.0	17.3
2	PCC	M15	08/04/2022	06/05/2022	151.96 X 149.61 X 150.01	22734	8.286	391.1	17.2	
3	PCC	M15	08/04/2022	06/05/2022	151.39 X 151.63 X 149.49	22955	9.084	402.7	17.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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Vidyaranyapura Sub-Division
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : 011-22-000003 **Date: 15/04/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/04/2022	15/04/2022	151.71 X 149.56 X 150.56	22690	8.439	285.8	12.6	12.4
2	PCC	M15	08/04/2022	15/04/2022	149.54 X 149.80 X 149.79	22400	8.417	282.8	12.6	
3	PCC	M15	08/04/2022	15/04/2022	151.75 X 149.16 X 149.35	22634	8.169	272.3	12.0	

* The results obtained are satisfactory as per standard requirements.

Note:

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Vidyaranyapura Sub-Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 06/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/04/2022	06/05/2022	150.46 X 149.24 X 149.20	22454	8.141	392.1	17.5	17.4
2	PCC	M15	08/04/2022	06/05/2022	150.33 X 150.85 X 151.26	22677	8.315	387.2	17.1	
3	PCC	M15	08/04/2022	06/05/2022	149.74 X 150.94 X 151.85	22601	8.978	397.4	17.6	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 25/04/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-22

Customer ID : Drain Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	17/04/2022	24/04/2022	150.15 X 149.01 X 149.90	22374	9.100	408.3	18.3	18.4
2	Drain Bottom Raft	M20	17/04/2022	24/04/2022	149.66 X 150.98 X 151.49	22595	8.829	414.5	18.3	
3	Drain Bottom Raft	M20	17/04/2022	24/04/2022	149.95 X 149.63 X 149.34	22438	8.387	418.4	18.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 16/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-22

Customer ID : Drain Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	17/04/2022	15/05/2022	150.65 X 151.80 X 149.10	22869	8.474	535.9	23.4	23.0
2	Drain Bottom Raft	M20	17/04/2022	15/05/2022	151.28 X 149.32 X 150.88	22588	8.870	499.5	22.1	
3	Drain Bottom Raft	M20	17/04/2022	15/05/2022	151.22 X 149.98 X 150.29	22680	8.263	533.8	23.5	

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 25/04/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-22

Customer ID : Drain Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	17/04/2022	24/04/2022	149.71 X 150.96 X 150.14	22599	8.265	421.6	18.7	18.7
2	Drain Bottom Raft	M20	17/04/2022	24/04/2022	151.82 X 150.55 X 151.94	22856	8.536	428.9	18.8	
3	Drain Bottom Raft	M20	17/04/2022	24/04/2022	149.48 X 149.55 X 151.51	22355	9.049	416.0	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : 011-22-000003 **Date: 16/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-22

Customer ID : Drain Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	17/04/2022	15/05/2022	149.28 X 150.14 X 151.38	22414	8.847	519.2	23.2	23.1
2	Drain Bottom Raft	M20	17/04/2022	15/05/2022	149.66 X 149.34 X 151.93	22350	8.389	507.8	22.7	
3	Drain Bottom Raft	M20	17/04/2022	15/05/2022	150.73 X 151.41 X 150.57	22821	8.727	532.2	23.3	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 26/04/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-22

Customer ID : Drain Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	19/04/2022	26/04/2022	150.89 X 149.25 X 151.81	22521	8.148	415.4	18.4	18.5
2	Drain Side Wall	M20	19/04/2022	26/04/2022	150.06 X 150.42 X 150.83	22573	9.085	424.6	18.8	
3	Drain Side Wall	M20	19/04/2022	26/04/2022	149.52 X 149.40 X 151.52	22337	8.301	408.7	18.3	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**011-22-000003** **Date: 17/05/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer's Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-22
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	19/04/2022	17/05/2022	149.35 X 149.77 X 149.98	22368	8.357	529.5	23.7	23.1
2	Drain Side Wall	M20	19/04/2022	17/05/2022	149.40 X 149.43 X 149.14	22324	9.095	496.1	22.2	
3	Drain Side Wall	M20	19/04/2022	17/05/2022	151.83 X 149.35 X 149.49	22676	8.636	529.0	23.3	

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Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 26/04/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-22

Customer ID : Drain Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall	M20	19/04/2022	26/04/2022	150.53 X 151.01 X 150.72	22733	8.171	429.6	18.9	18.7
2	Drain Side Wall	M20	19/04/2022	26/04/2022	150.38 X 151.74 X 150.66	22819	8.554	427.3	18.7	
3	Drain Side Wall	M20	19/04/2022	26/04/2022	149.30 X 151.12 X 151.39	22562	8.129	415.5	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 17/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-22

Customer ID : Drain Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	19/04/2022	17/05/2022	150.62 X 149.73 X 151.26	22552	8.393	521.9	23.1	23.2
2	Drain Side Wall	M20	19/04/2022	17/05/2022	151.24 X 151.53 X 149.44	22918	8.201	523.8	22.9	
3	Drain Side Wall	M20	19/04/2022	17/05/2022	149.25 X 149.70 X 151.87	22341	8.977	529.8	23.7	

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 26/04/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-22

Customer ID : Drain Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	19/04/2022	26/04/2022	150.48 X 149.32 X 150.06	22469	9.084	421.9	18.8	18.6
2	Drain Side Wall	M20	19/04/2022	26/04/2022	151.29 X 151.78 X 149.49	22963	8.590	416.7	18.1	
3	Drain Side Wall	M20	19/04/2022	26/04/2022	151.22 X 149.19 X 151.90	22559	8.519	422.9	18.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **011-22-000003** **Date: 17/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer's Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-22

Customer ID : Drain Side Wall

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall	M20	19/04/2022	17/05/2022	150.63 X 149.61 X 149.67	22536	9.085	519.5	23.1	23.1
2	Drain Side Wall	M20	19/04/2022	17/05/2022	149.65 X 149.78 X 151.42	22416	8.520	513.1	22.9	
3	Drain Side Wall	M20	19/04/2022	17/05/2022	150.22 X 151.09 X 151.51	22696	8.849	531.2	23.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**011-22-000003** **Date: 04-04-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer's Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-03-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	30-03-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **011-22-000003** **Date: 04-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	_
5	Loose Bulk Density (Kg/litre)	1.73	_

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

ASSISTANT EXECUTIVE ENGINEER
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****End of Report****

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**011-22-000003** **Date: 13-04-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer's Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-22
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	09-04-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	404	149	203	12220	23.219	1900.1	1884.9	Not less than 1800Kg/m^3
2	399	148	203	11988	22.353	1864.7		
3	398	151	200	12020	22.716	1889.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.69	4.89	4.25	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

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Lab ID : **011-22-000003** **Date: 13-04-22**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	151	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	151	201	
3	404	152	200	
4	403	152	203	
5	403	150	201	
6	399	152	203	
7	402	150	202	
8	403	152	200	
9	399	153	202	
10	400	153	203	
11	399	151	201	
12	404	149	199	
13	400	151	200	
14	400	152	201	
15	404	152	203	
16	404	152	202	
17	402	149	203	
18	403	149	203	
19	400	150	202	
20	403	150	202	
Average of 20	**402**	**151**	**202**	

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Lab ID : **011-22-000003** **Date: 13-04-22**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	151	60578	256.3	4.2	4.2
2	400	151	60535	238.8	3.9	
3	404	152	61209	245.7	4.0	
4	403	152	61252	254.3	4.2	
5	403	150	60432	259.2	4.3	
6	399	152	60857	251.3	4.1	
7	402	150	60097	270.5	4.5	
8	403	152	61359	258.5	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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Authorized Signatory
Quality Manager

****End of Report****

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 07-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	04-05-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2022-06-15-20** **Date: 07-05-22**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara

Agency : Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032

Customer Reference : BBMP/EE/BTP/WO/58/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-22

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 04-05-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	336	336	3.1	96.9	95-100
22.4	2298	2634	23.9	76.1	60-80
11.2	2569	5203	47.3	52.7	40-60
4.75	2296	7499	68.2	31.8	25-40
2.36	1635	9134	83.0	17.0	15-30
0.6	615	9749	88.6	11.4	8-22
0.075	1025	10774	97.9	2.1	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 07-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	04-05-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	300	300	2.7	97.3	95-100
22.4	2156	2456	22.3	77.7	60-80
11.2	2469	4925	44.8	55.2	40-60
4.75	2159	7084	64.4	35.6	25-40
2.36	1569	8653	78.7	21.3	15-30
0.6	569	9222	83.8	16.2	8-22
0.075	1369	10591	96.3	3.7	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-06-15-20**	**Date: 07-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara	
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032	
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	04-05-22	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	04-05-22	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 07-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	04-05-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 16-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-05-22
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of Test	:	14-05-22
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	165	165	3.3	96.7	90-100
13.2	512	677	13.5	86.5	56-88
4.75	2759	3436	68.7	31.3	16-36
2.36	911	4347	86.9	13.1	4-19
0.3	358	4705	94.1	5.9	2-10
0.075	232	4937	98.7	1.3	0-8
PAN	63	5000	100.0	0.0	0

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End of Report

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 18-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-05-22
Type of Mix	:	BM (Bituminous Macadam)
Date of Test	:	14-05-22

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	7.2		
Strength	Aggregate Impact Value	25.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.51	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.17	Maximum 2%	IS:2386 Part III

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 18-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-05-22
Type of Mix	:	BM(Bitumnous Macadam)
Date of Test	:	14-05-22
Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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****End of Report****

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-**	**Date: 30-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara	
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032	
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	28-05-22	
Type of Mix	:	BM (Bituminous Macadam)	
Date of Test	:	28-05-22	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	483	482
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	3.40	3.60
4	Average percentage	%	3.50	

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Lab ID : **CP-RW-2018-** **Date: 30-05-22**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 483 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	147	185	38.3	61.7	56-88
4.75	191	376	77.8	22.2	16-36
2.36	28	404	83.6	16.4	4-19
0.3	32	436	90.3	9.7	2-10
0.075	31	467	96.7	3.3	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 482 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	147	185	38.4	61.6	56-88
4.75	191	376	78.0	22.0	16-36
2.36	28	404	83.8	16.2	4-19
0.3	28	432	89.6	10.4	2-10
0.075	30	462	95.9	4.1	0-8

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Quality Manager

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-06-15-20**	**Date: 23-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara	
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032	
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	21-05-22	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of Test	:	21-05-22	
Oven Dry Weight	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 24-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-22
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	21-05-22

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 24-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	21-05-22

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 24-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	21-05-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 06-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	04-06-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	04-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	473	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.40	5.60
4	Average percentage	%	5.5	

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Lab ID : **CP-RW-2022-06-15-20** **Date: 06-06-22**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.4	37.6	34-48
0.6	11	306	64.7	35.3	26-38
0.3	46	352	74.4	25.6	18-28
0.15	45	397	83.9	16.1	12-20
0.075	55	452	95.6	4.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 12-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer's Reference	:	BBMP/EE/BTP/WO/58/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-22
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	09-05-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**64**	60 to 70
2	Softening Point, °C	**51.2**	Min. 40°C
3	Ductility, cm	**98**	Min. 75cm
4	Flash point, °C	**245**	Min. 220°C
	Fire point, °C	**272**	

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Quality Manager

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2022-06-15-20** **Date: 06-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Lakkappa Layout and Hosabalu Nagara in Ward No. 11, Kuvempunagara
Agency	:	Sri. Nagaoor Lokanadha Reddy, Flat No:102, 1st Floor, No:2, MSNR Cross, Manorayanapalya, R T Nagara Bangalore - 560032
Customer Reference	:	BBMP/EE/BTP/WO/58/2021-22
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-22
Type of Mix	:	Tack coat
Date of Test	:	04-06-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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